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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/758,306	01/16/2004	Bruce S. Jones	NUKZ 2 00311-1	5363
27885	7590	09/17/2007		
FAY SHARPE LLP 1100 SUPERIOR AVENUE, SEVENTH FLOOR CLEVELAND, OH 44114			EXAMINER UHLENHAKE, JASON S	
			ART UNIT 2853	PAPER NUMBER
			MAIL DATE 09/17/2007	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.

10/758,306

Applicant(s)

JONES, BRUCE S.

Examiner

Jason Uhlenhake

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 25 June 2007.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 22-25 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 22-24 is/are allowed.
- 6) ☒ Claim(s) 25 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_

- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 25 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wenzel (U.S. Pat. 5,700,315) in view of Usui et al (U.S. Pat. 6,536,861)

***Wenzel discloses:***

- ***regarding claim 25***, a housing having a top wall (80), a bottom wall (32) and side walls (20, 22) forming a chamber for receiving ink, an outlet passage (52) through the bottom wall for dispensing ink from the chamber, and a vent (84) including an opening through the top wall for venting air into the chamber from atmosphere (Figure 1)

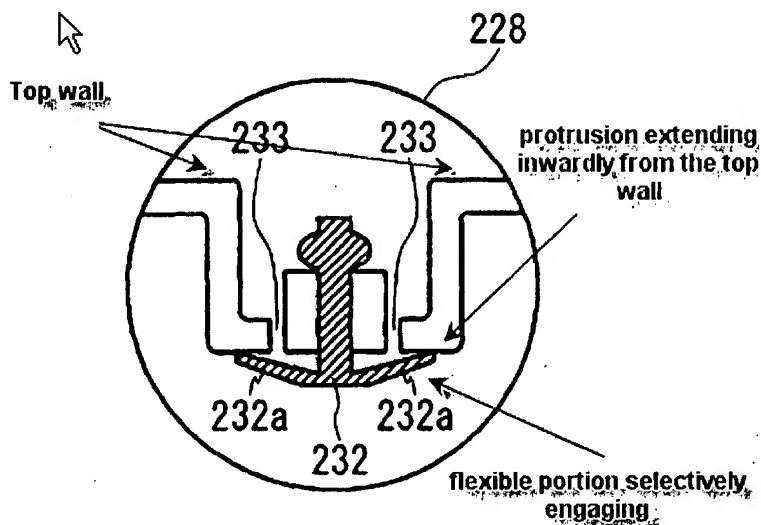
***Wenzel does not disclose expressly the following:***

- ***regarding claim 25***, vent being a diaphragm mounted on the top wall and having a flexible portion overlying the opening through the top wall on the inner side thereof, the flexible portion selectively engaging at least one protrusion extending inwardly from the top wall and having a second portion extending through the opening which secures the diaphragm to the housing

***Usui discloses:***

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- **regarding claim 25**, vent being a diaphragm mounted on the top wall and having a flexible portion overlying the opening through the top wall on the inner side thereof, the flexible portion selectively engaging at least one protrusion extending inwardly from the top wall and having a second portion extending through the opening which secures the diaphragm to the housing (Figures 51-52, 56; Column 48, Line 45 – Column 49, Line 53), for the purpose of maintaining a stable pressure inside the ink cartridge

**FIG. 51 (C)**

At the time the invention was made it would have been obvious to a person of ordinary skill in the art to incorporate the teaching of vent being a diaphragm mounted on the top wall and having a flexible portion overlying the opening through the top wall

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on the inner side thereof as taught by Usui into the device of Wenzel, for the purpose of maintaining a stable pressure inside the ink cartridge.

### ***Response to Arguments***

Applicant's arguments with respect to claim 25 have been considered but are moot in view of the new ground(s) of rejection.

### ***Allowable Subject Matter***

The following is a statement of reasons for the indication of allowable subject matter:

The primary reason for the allowance of claim 22 is the inclusion of the limitation of an ink cartridge comprising a housing having a top wall including a cylindrical neck having an upper outer end; said opening extending through the top wall cylindrical neck, the vent being a porous member resting on the upper, outer end of the cylindrical neck and a cap securing the porous member on the neck. It is this limitation found in each of the claims, as it is claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

The primary reason for the indication of allowable subject matter for claims 23-24 is the inclusion of the limitation of the cylindrical neck extends inwardly of the chamber from the top wall and is surrounded by a peripheral recess, whereby the outer end of the neck is adjacent to the outer side of the top wall. It is this limitation found in each of

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the claims, as it is claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

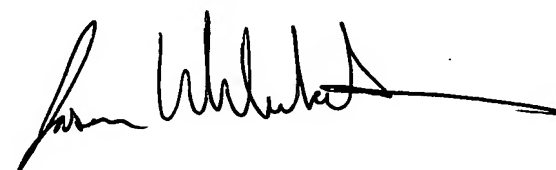
**Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Uhlenhake whose telephone number is (571) 272-5916. The examiner can normally be reached on Monday - Friday 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JSU  
September 12, 2007



JULIAN D. HUFFMAN  
PRIMARY EXAMINER

9/13/07